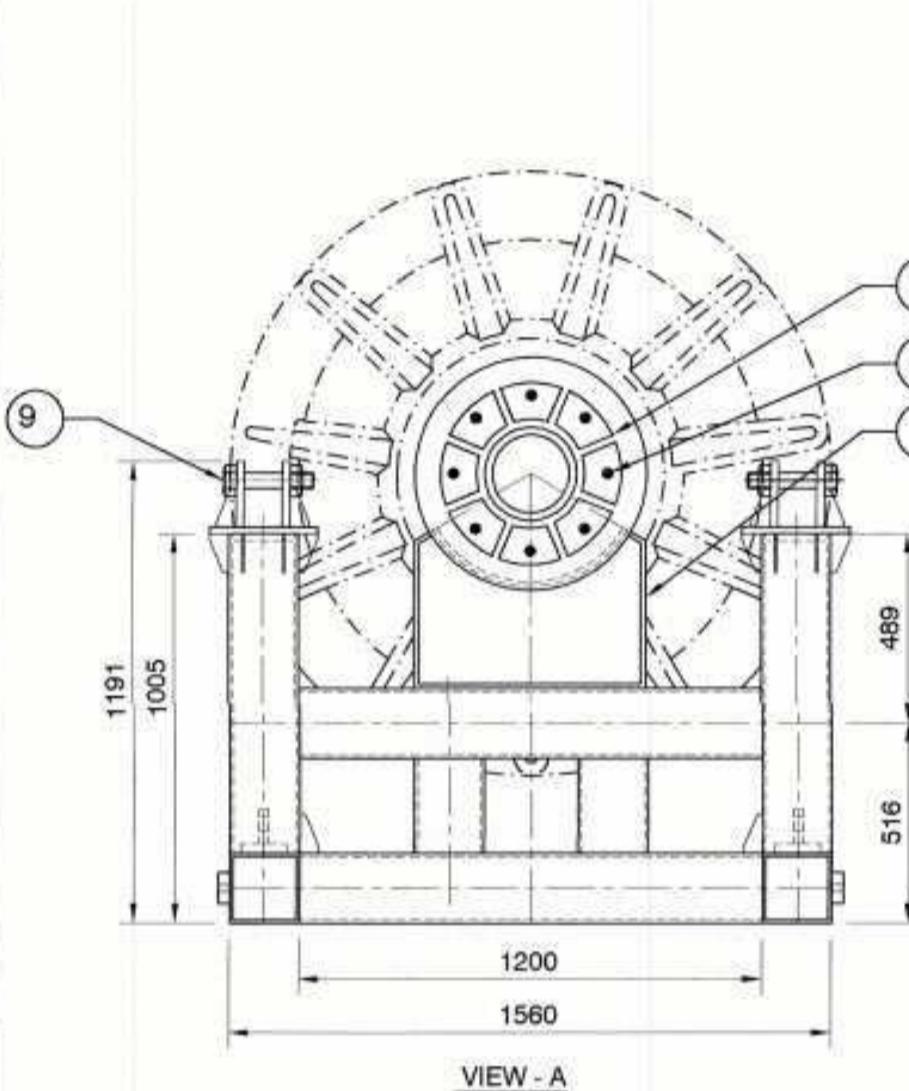
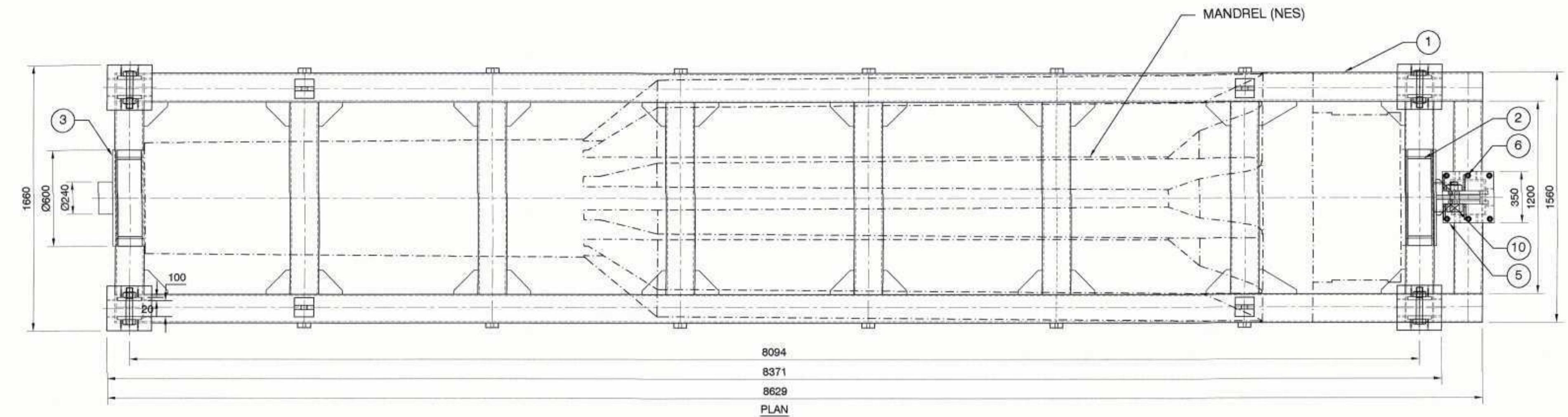


REF. DRG. NO. 10-03-SSSLV-09-001/A

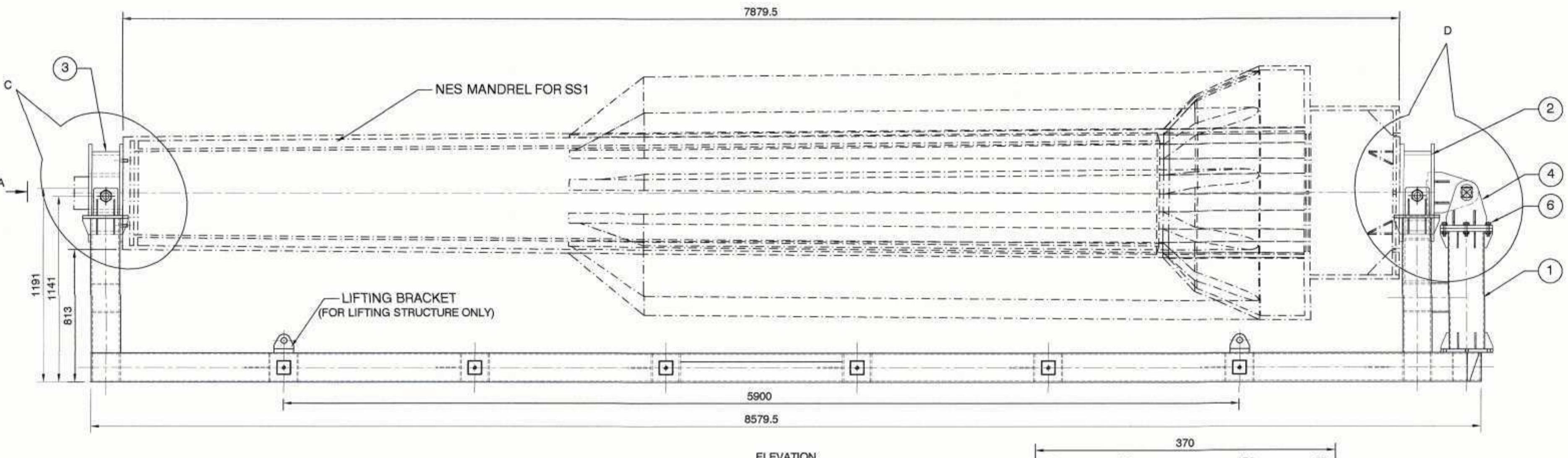
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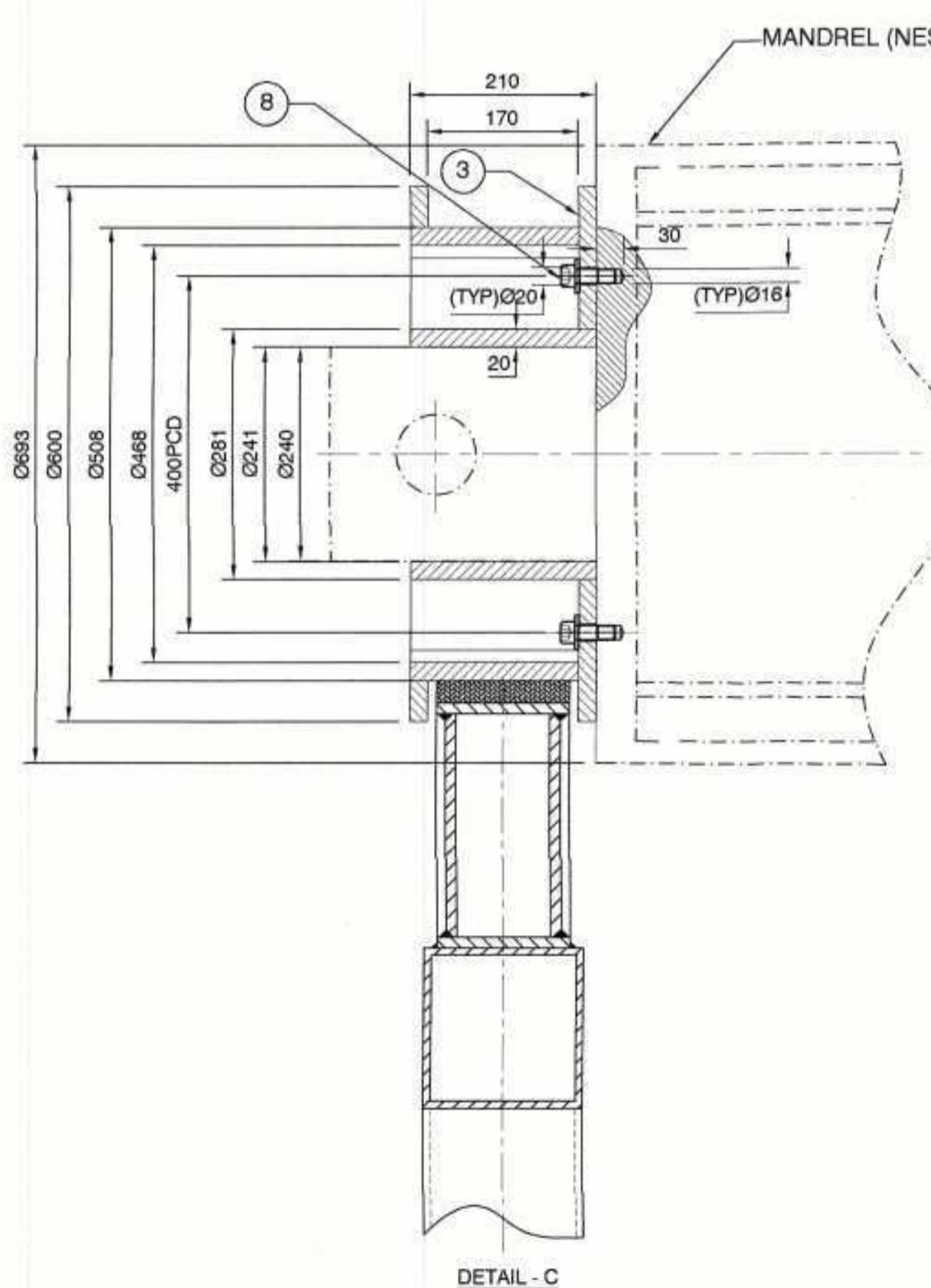
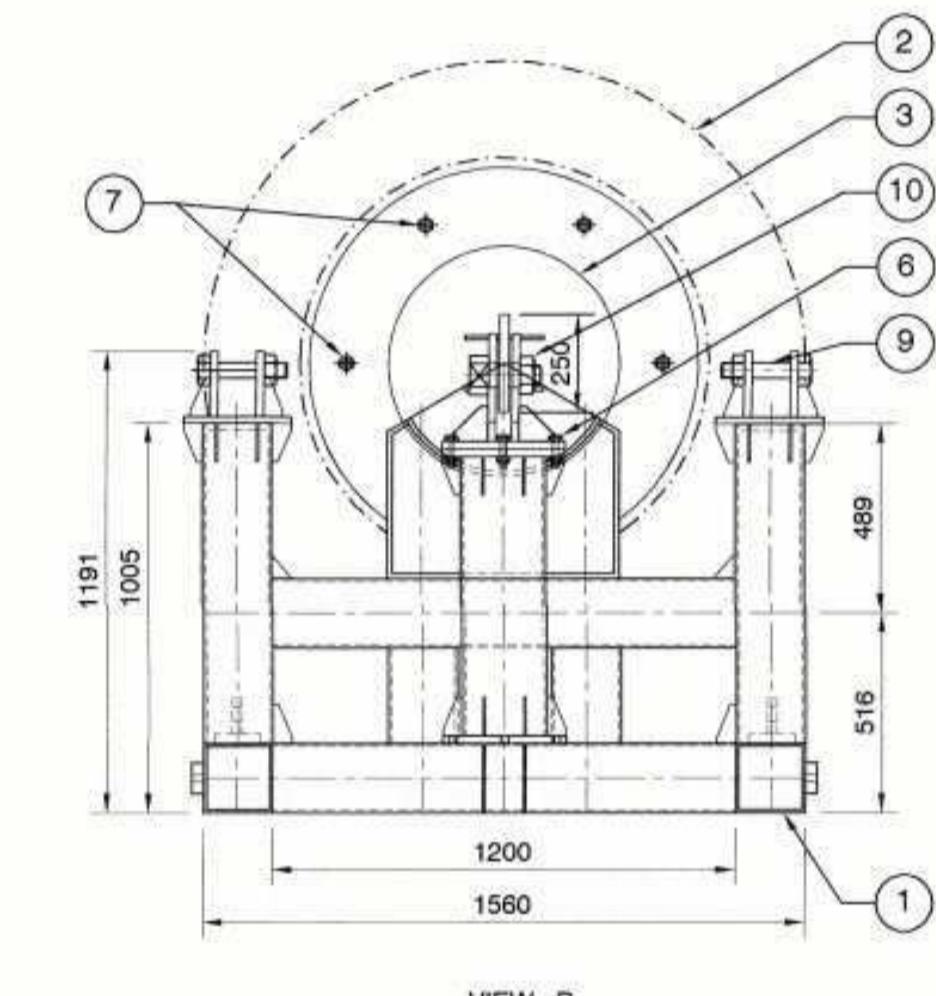
11



VIEW -



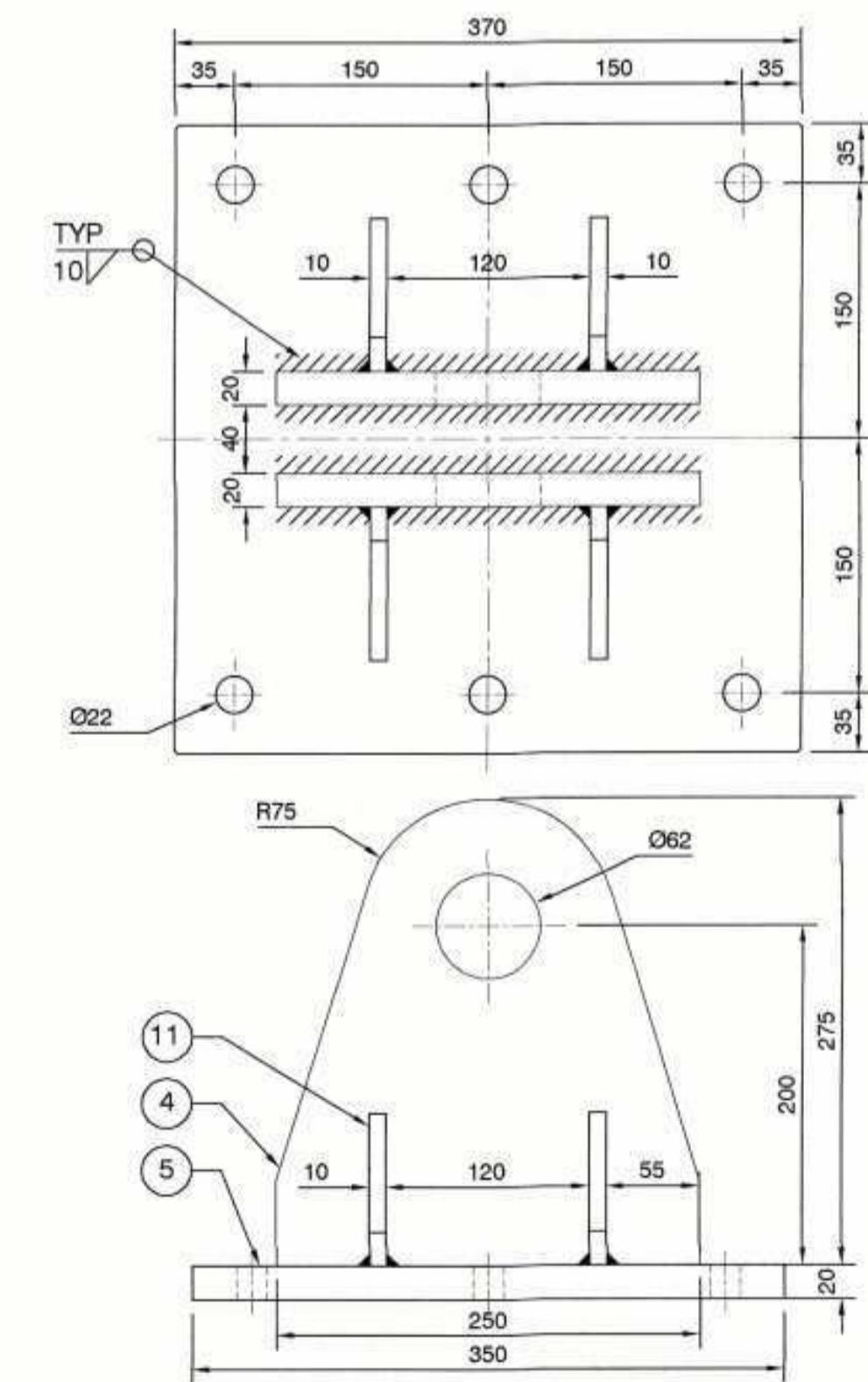
ELEVATION



Technical drawing showing a cross-sectional view of a mandrel assembly (DETAIL - D). The assembly consists of a vertical mandrel (NES) with various components labeled 1 through 7. Key dimensions include total height of 1059, a gap of 1009 between two sections, and a gap of 1008 between the bottom section and the base. Other dimensions include 25, 170, 20, 10, 10, 90, 90, 20, 20, 85A/F, Ø100, Ø60, and 185. Callouts provide detailed views of two parts:

- PART NO - 10:** A top view of a rectangular part with a central hole of Ø60. The overall width is 185, and the height is Ø100. The central hole has a diameter of Ø60. The part is labeled M48.
- PART NO - 11:** A side view of a trapezoidal part. The top horizontal length is 20, the bottom horizontal length is 90, and the height is 90. The part is labeled M48.

ETAIL - □



PART NO - 4,5 & 1

STATUS	SIGN.	DATE
FOR DISCUSSION		
✓ FOR TENDER	<i>John</i>	3/18/18
FOR FABRICATION		

STATUS	SIGN.	DATE
FOR DISCUSSION		
✓ FOR TENDER	<i>John</i>	31/8/18
FOR FABRICATION		

DO NOT SCALE THE DRAWING ASK IF IN DOUBT UNLESS OTHERWISE SHOWN ALL DIMENSIONS ARE IN MILLIMETERS REMOVE SHARP EDGES & BURRS CHAMFER 1 M.M. X 45° MACHINING FINISH IN MICRONS :-		DEVIATION FOR NON TOLERANCED DIMENSIONS (IS -2102)	
		DIAMETERS & LENGTHS	LENGTH IN M.M. SHORTER SIDE ANGLE UPTO & I
▽	8 - 25	UPTO & INCL 6 +0.1 6 - 30 +0.2 30 - 120 +0.3 120 - 315 +0.5 315 - 1000 +0.8 1000 - 2000 +1.2 2000 - 4000 +2.0 4000 & ABOVE +3.0	1 - 6 ± 1° 6 - 30 ± 0° 30-120 ± 0° 120-400 ± 0°
▽▽	1.6 - 8		

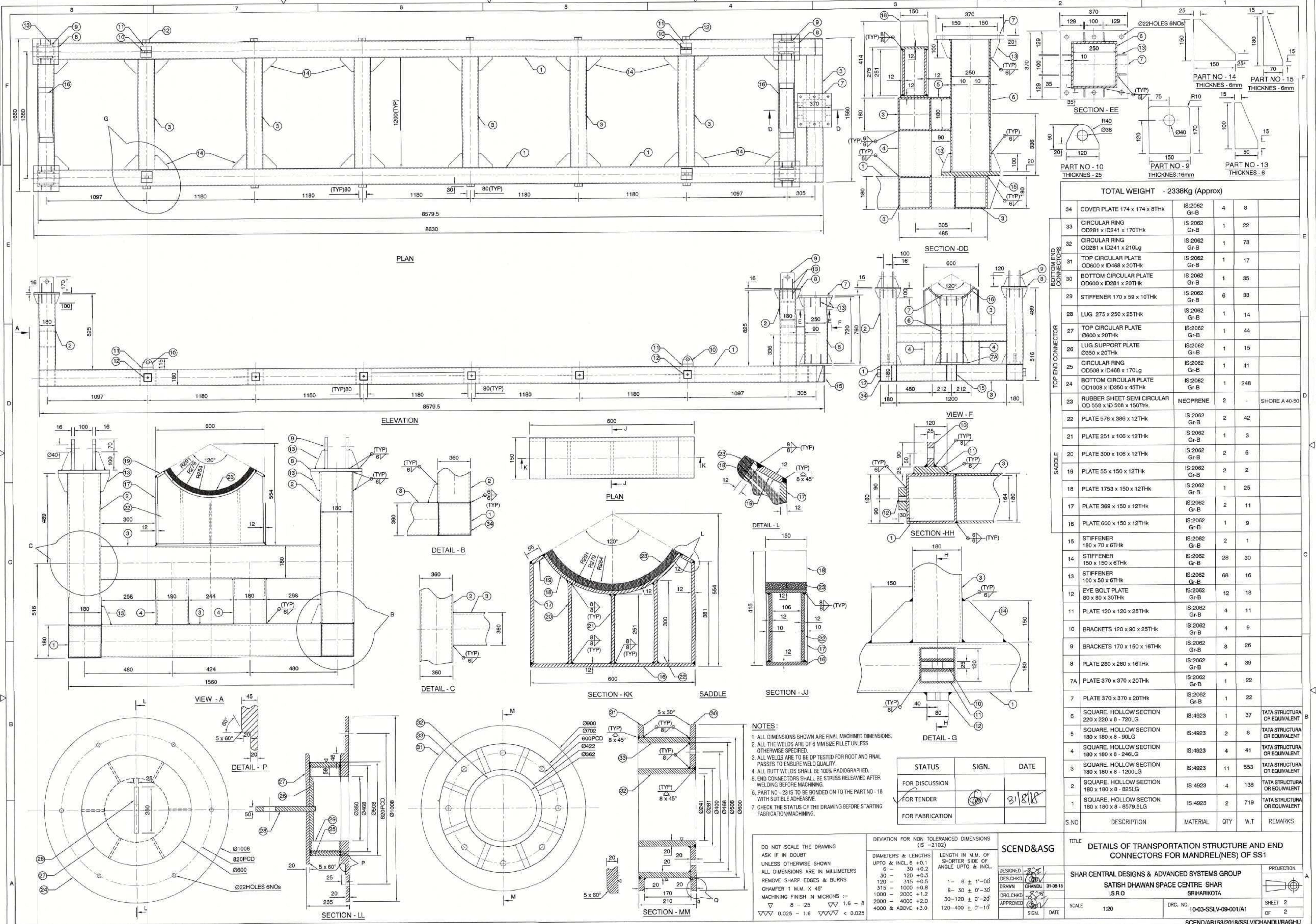
SCEN

SCEND&ASG TITLE GA OF MANDREL(NES) TRANSPORTATION SYSTEM WITH
OF
DE
END CONNECTORS FOR SS1 AT CASTING FACILITY OF SPP

	SHAR CENTRAL DESIGNS & ADVANCED SYSTEMS GROUP	PROJECTION
CHANDU 31-08-18	SATISH DHAWAN SPACE CENTRE SHAR	
SAC	ISRO	SPACELAB KOTA

		I.S.R.O		SHIHARIKOTA	
SIGN.	DATE	SCALE 1:20	DRG. NO. 10-03-SSLV-09-001/A1	SHEET OF	1 2

CEND/AB152/2018/SSLV/CHANDU/RAGHU



NOTES:

STATUS	SIGN.	DATE
FOR DISCUSSION		
FOR TENDER	600v	31/8/18
FOR FABRICATION		

The drawing shows a cross-section of a mechanical part. The top horizontal part has a total width of 20 mm, divided into three segments of 20 mm each. The bottom horizontal part has a total width of 210 mm, divided into segments of 170 mm and 20 mm. A vertical column on the right has a total height of 170 mm, divided into segments of 20 mm and 150 mm. A callout 'Q' points to a feature on the bottom part. A note 'DO NOT SAW' is present.

SCALE THE DRAWING		DEVIATION FOR NON TOLERANCED DIMENSIONS (IS -2102)		
DOUBT		DIAMETERS & LENGTHS		LENGTH IN MILLIMETERS
OTHERWISE SHOWN		UP TO & INCL. 6	+0.1	SHORTEST SIDE
IONS ARE IN MILLIMETERS		6 -	30 +0.2	ANGLE UP TO 45°
ARP EDGES & BURRS		30 -	120 +0.3	
M.M. X 45°		120 -	315 +0.5	1- 6 ± 0.5
FINISH IN MICRONS :-		315 -	1000 +0.8	6- 30 ± 0.5
3 - 25	▽▽	1000 -	2000 +1.2	30-120 ± 0.5
- 1.6	▽▽▽▽	2000 -	4000 +2.0	
		4000 & ABOVE	+3.0	120-400 ± 0.5

SCEND&ASG

TITLE DETAILS OF TRANSPORTATION STRUCTURE AND END CONNECTORS FOR MANDREL(NES) OF SS1

SHAR CENTRAL DESIGNS & ADVANCED SYSTEMS GROUP
8-18
SATISH DHAWAN SPACE CENTRE SHAR
I.S.R.O. SRIHARIKOTA

PROJECTION

SCEND/AB153/2018/SSLV/CHANDU/RAGHU